Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Removing and Resetting of Footpath Slab (Approved Rate)								
	Approved Basic Rate	235.00							
	Area Weightage 10%	23.50							
	Total Rate	258.50							
	Desilt								
	Surabi Layout	1	380.00	1.20		456.00			
						456.00			
	Deduct/Missing Slab 20%					91.20			
						364.80	Sqm	258.50	94,300.80
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work . Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum (Tipper 5.5 m3) (V-I.No 1.4,Page No-5 PWD SR 2021-22) & (V-III Page No.3, Item No.1.1 A of PWD SR 2021-22)								
	Basic Rate	186.00							
	Loading And Unloading	118.00							
	Sub Total	304.00							
	Area Weightage 10%	30.40							
	Total Rate	334.40							
	RCC Drain								
	Surabi Layout								
		1	73.00	1.50	0.90	98.55			
	Culverts	3	6.00	1.50	0.90	24.30			
	Desilt								
	Surabi Layout	1	380.00	0.90	0.50	171.00			
						293.85	Cum	334.40	98,263.44
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) **Mix 1:3:6 (M10) Using 40 mm** nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021 22)(Issue rate on 07-04-22)								
	Basic Rate	5554.00							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Area Weightage 10%	555.40							
	Total Rate	6109.40							
	RCC Drain								
	Surabi Layout								
		1	73.00	1.50	0.15	16.43			
	Culverts	3	6.00	1.50	0.15	4.05			
						20.48	Cum	6109.40	125089.97
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22) (Issue rate on 07-04-22)								
	Basic Rate	92170.00							
	Area Weightage 10%	9217.00							
	Total Rate	101387.00							
	For RCC Drain, 60kg/Cum	1	48.54	60.00		2912.40			
	For CC Culvert, 90kg/Cum	1	8.87	90.00		798.66			
						3711.06			
						3.71	Tn	101387.00	376253.24
5	Providing and laying in position **Reinforced cement concrete** for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M20 Design Mix Using 20 mm** nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2 of PWD SR 2021-22) Apendx I, V-I P.No-115)(Issue rate on 07-04-22)								
	Basic Rate	5968.00							
	5% Centring	298.40							
	Sub Total	6266.40							
	Area Weightage 10%	626.64							
	Total Rate	6893.04							
	RCC Drain Raft								
	Surabi Layout								
		1	73.00	1.20	0.15	13.14			
	RCC Drain Wall								
	Surabi Layout								
		2	73.00	0.15	1.00	21.90			
	Wall Raising	4	75.00	0.15	0.30	13.50			
						48.54			
	Culvert Raft	3	6.00	1.20	0.20	4.32			
	CulvertWall	6	6.00	0.23	0.55	4.55			
						8.87			
						57.41	Cum	6893.04	395757.00

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
6	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) **Mix 1:3:6 (M10) Using 20 mm** nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.4 of PWD SR 2021-22)(Issue rate on 07-04-22)								
	Basic Rate	**5728.00**							
	Area Weightage 10%	**572.80**							
	Total Rate	**6300.80**							
	RCC Drain Bed Correction								
	Surabi Layout								
		2	75.00	0.60	0.15	13.50			
						13.50	**Cum**	**6300.80**	**85,060.80**
7	Providing and fixing precast reinforced cement concrete **covering slabs of 10Cm thick** made of M25 with OPC cement,@340kgs/cum with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.(Exclusive of GST and Area Loading Charges)								
	Basic Data Rate	**2072.00**							
	Surabi Layout								
		1	73.00	1.20		87.60			
						87.60			
	Qty From Item No-1					91.20			
						178.80	**Sqm**	**2072.00**	**370473.60**
8	Providing and fixing precast reinforced cement concrete **covering slabs of 23Cm thick** made of M25 with OPC cement,@340kgs/cum with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.(Exclusive of GST and Area Loading Charges)								
	Basic Data Rate	**5037.00**							
	RCC Culvert	3	6.00	1.20		21.60			
						21.60	**Sqm**	**5037.00**	**108799.20**
9	**Cost of Haulage Excluding Loading** and Unloading Taking output 10 t load and lead 10 km = 100 t.km(V-III Page No.3, Item No.1.4A of PWD SR 2021-22)								
	Basic Rate	**12.00**							
	8KM Lead = 12*8	**96.00**							
	Area Weightage 10%	**9.60**							
	Total Rate	**105.60**							
	Qty frm Item No-1		293.9	1.28		376.13			
						376.13	**t.Km**	**105.60**	**39,719.12**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Total Construction Cost								1693717.16
	18% GST for Construction Cost								304869.09
	Sub Total								1998586.25
	Utility Shifting,Miscellaneous and Rounding off								1,413.75
	GRAND TOTAL								2000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2021-2022, issue rates dated 07-07-2022 and Data Rates

Assistant Engineer
Ward No-01
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

'Administrative Approval.
Accorded For 20.00 Lakhs.
Head of A/C P.3796
CER NO :33 Dt: 22/8/2022

TA

CE (NK)

TECHNICALLY SANCTIONED FOR Rs. 20.00 Lakhs
Rupees Twenty lakhs Only
Under P. 3796
Zonal Public Works
Registered as CE ( ) No. 9 9
Subject to conditions contained in enclosed memo EE ( ) No. 19 /9/
Dt. 22/08/2022 Estimate A/ Sanctioned
BBMP/EE/YNK-01/TS/19/22-23 No. 19
Dated 22/08/2022 Rs. 20.00 Lakhs

Executive Engineer